

UNITED STATES GOVERNMENT

Memorandum

TO : Memorandum for Record

FROM : CB/David R. Scott

SUBJECT: Apollo 15 Lunar Surface EMU/Equipment Interface

Jim:

CB

Here is our thinking on the bags, etc.
I don't believe its quite as confusing as it
sounded Thurs. the 12th we're scrubbin'!

DATE: November 10, 1970

19/3 FL02
gun (15)

PA-MGR
PA-M.CSM
PA-M.LM
PA-M.EXP
PA-A.MgFLS
PA-TecAst

PE
PF
PG
PP
PT
PES
NA

PD7

To perform the J Mission extended lunar surface EVA operations, four basic crew/equipment (bags and tools) configurations must be provided. The crew must have the equipment available to:

1. Perform long duration (1 to 2 hour) lunar field geology excursions away from the LRV.
2. Perform short (15 minute) lunar field geology excursions near the LRV.
3. Complete lunar geology objectives in case of LRV failure.
4. Walk back to the LM from the most distant traverse point in case of LRV failure with all collected samples and exposed film.

To optimize the crew equipment configuration each of the following factors must be considered:

1. The equipment and procedures necessary to meet the above four requirements should be standardized.
2. The overhead necessary to perform a science stop with the LRV must be minimized.
3. The return from geologic operations must be maximized.
4. All samples and exposed film must be returned to the LM on a walk back at minimum crew workload.
5. The number of equipment/EMU/crew interfaces must be minimized.

A single basic equipment/EMU configuration meets all of the above requirements and is illustrated in the enclosure. This configuration is a result of several months of field testing and mock-up reviews and requires only the addition of several clips to the PLSS covers.

David R. Scott
David R. Scott

Enclosure



cc:

CA/D. K. Slayton

CB/T. P. Stafford

J. W. Young

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PD7/J. M. Peacock

TN6/W. C. Phinney

CF7/R. G. Zedekar

TM/J. G. Zarcaro

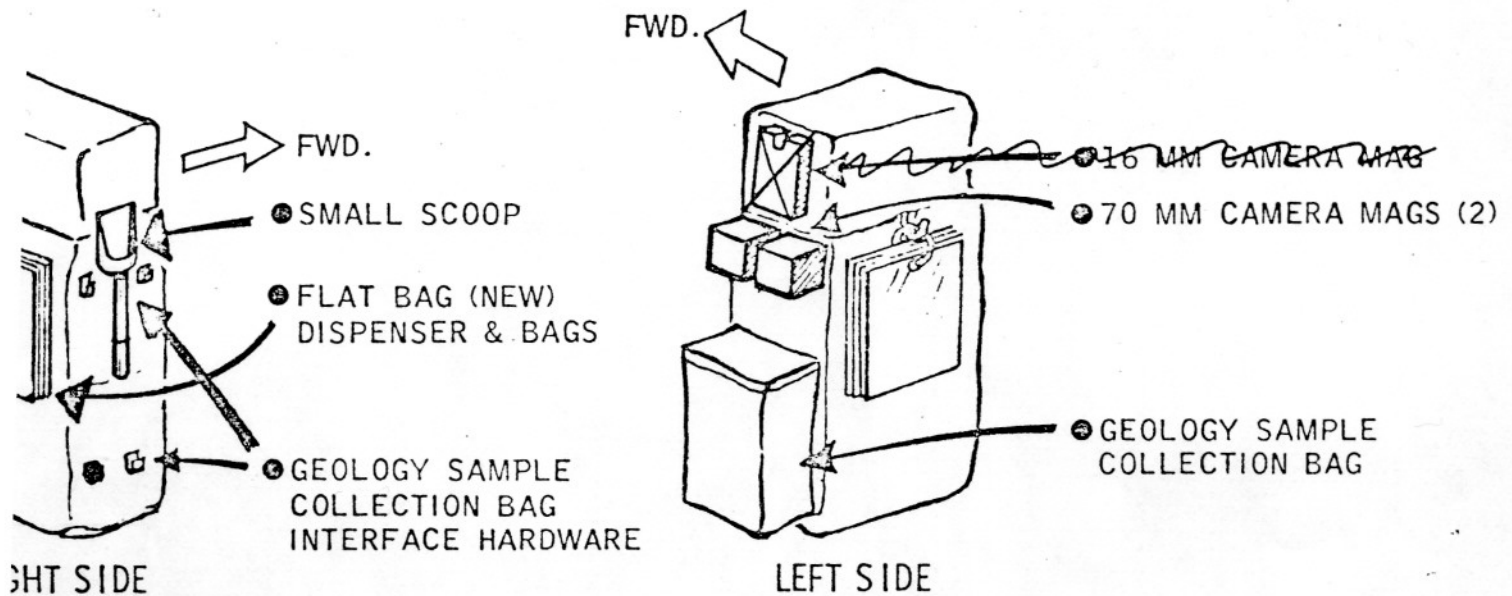
Gordon Swann

United States Geological Survey

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APOLLO 15 - LUNAR HANDTOOL STOWAGE ON THE PLSS

CDR PLSS:



LMP PLSS:

